

# Sertifikaat

REPUBLIEK VAN SUID-AFRIKA

# Certificate

PATENTKANTOOR



REC'D 08 DEC 1999

PATENT OFFICE

DEPARTEMENT VAN HANDEL  
EN NYWERHEID

REPUBLIC OF SOUTH AFRICA

WIPO PCT

DEPARTMENT OF TRADE  
AND INDUSTRY

IB 98 / 1565

Hiermee word gesertifiseer dat  
This is to certify that

the documents annexed hereto are true copies of:

Application form P.1, provisional specification and drawings of South African Patent Application No. 98/9281 as originally filed in the Republic of South Africa on 12 October 1998 in the name of ANGLO AMERICAN INDUSTRIAL CORPORATION LIMITED for an invention entitled: "A WINDSCREEN WIPER";

AND it is further certified that Patent Application No. 98/9281 and the invention forming the subject matter of the patent application, together with all priority rights flowing from the patent application under the provisions of the International Convention were duly assigned in accordance with law from ANGLO AMERICAN INDUSTRIAL CORPORATION LIMITED to TRICO PRODUCTS CORPORATION by virtue of Deed of Assignment effective from 14 November 1998 which Deed of Assignment was duly registered at the Patent Office, Pretoria, on 19 May 1999.

Geteken te  
Signed at

PRETORIA

in die Republiek van Suid-Afrika, hierdie  
in the Republic of South Africa, this

3rd dag van  
day of

November 1999

## PRIORITY DOCUMENT

SUBMITTED OR TRANSMITTED IN  
COMPLIANCE WITH RULE 17.1(a) OR (b)

Registrateur van Patente  
Registrar of Patents

REPUBLIC OF SOUTH AFRICA  
PATENTS ACT, 1978  
APPLICATION FOR A PATENT AND  
ACKNOWLEDGEMENT OF RECEIPT  
(Section 30(1), Regulation 22)

REPUBLIC OF SOUTH AFRICA  
REVENUE  
FORM P.1  
(to be lodged in duplicate)  
12 R 060.00  
INKOMSTE  
REPUBLIC VAN SUID AFRIKA  
HANSR 370

THE GRANT OF A PATENT IS HEREBY REQUESTED BY THE UNDERMENTIONED APPLICANT(S) ON THE BASIS OF THE PRESENT APPLICATION FILED IN DUPLICATE

A & A REF: V13055 AL

PATENT APPLICATION NO.	
21 01	989281
71	FULL NAMES(S) OF APPLICANT(S)

~~ANGLO AMERICAN INDUSTRIAL CORPORATION LIMITED~~ SOEKERS VERVANG  
TRICO PRODUCTS CORPORATION APPLICANTS SUBSTITUTED  
19/3/99

ADDRESS(ES) OF APPLICANT(S)

44 Main Street, Johannesburg,  
Gauteng, Republic of South Africa.

4 TITLE OF INVENTION

"A WINDSCREEN WIPER"

Only the items marked with an "X" in the blocks below are applicable.

- ☐ THE APPLICANT CLAIMS PRIORITY AS SET OUT ON THE ACCOMPANYING FORM P.2. The earliest priority claimed is Country: No: Date:  
☐ THE APPLICATION IS FOR A PATENT OF ADDITION TO PATENT APPLICATION NO. |21|01|  
☐ THIS APPLICATION IS A FRESH APPLICATION IN TERMS OF SECTION 37 AND BASED ON APPLICATION NO. |21|01|

THIS APPLICATION IS ACCOMPANIED BY:

- ☒ A single copy of a provisional specification of 5 pages.  
☒ Drawings of 1 sheets.  
☐ Publication particulars and abstract (Form P.8 in duplicate) (for complete only).  
☐ A copy of Figure of the drawings (if any) for the abstract (for complete only).  
☐ An assignment of invention. (TO FOLLOW)  
☐ Certified priority document(s) (State quantity): .....  
☐ Translation of the priority document(s).  
☐ An assignment of priority rights.  
☐ A copy of Form P.2 and the specification of RSA Patent Application No. |21|01|  
☒ A Form P.2 in duplicate.  
☐ A declaration and power of attorney on Form P.3. (TO FOLLOW)  
☐ Request for ante-dating on Form P.4.  
☐ Request for classification on Form P.9.  
☐ Request for delay of acceptance on Form P.4.  
☒ A copy of Form P.1

74 ADDRESS FOR SERVICE: Adams & Adams, Pretoria

DATED THIS 12TH DAY OF OCTOBER

A LEWIS

ADAMS & ADAMS

APPLICANTS PATENT ATTORNEYS

1998  
REGISTRAR OF PATENTS, DESIGNS,  
TRADE MARKS AND COPYRIGHT  
RECEIVED  
OFFICIAL DATE 1998-10-12  
REGISTRAR VAN PATENTE, MODELLE,  
HANDELSMERKE EN OORSGRISSE

The duplicate will be returned to the applicant's address for service as proof of lodging but is not valid unless endorsed with official stamp.

ADAMS & ADAMS  
PRETORIA

REPUBLIC OF SOUTH AFRICA  
PATENTS ACT, 1978  
DECLARATION AND POWER OF ATTORNEY  
(Section 30 - Regulation 8, 22(i)(c) and 33)

REPUBLIC OF SOUTH AFRICA  
REVENUE FORM P.3

R 002,00

PATENT APPLICATION NO	
21	01

A&A Ref: V13055 AL

LODGING DATE
REPUBLIC VAN SUID AFRIKA
22 NOV 98

FULL NAME(S) OF APPLICANT(S)
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71	ANGLO AMERICAN INDUSTRIAL CORPORATION LIMITED
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FULL NAME(S) OF INVENTOR(S)
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72	JOHANNES HENDRIK FEHRSEN
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EARLIEST PRIORITY CLAIMED	COUNTRY	NUMBER	DATE
	33	NIL	31
		NIL	32
			NIL

NOTE: The country must be indicated by its International Abbreviation - see schedule 4 of the Regulations

TITLE OF INVENTION
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54	"A WINDSCREEN WIPER"
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I/We Michael John Nayler and Stuart Colin McNair

REGISTRAR OF PATENTS, DESIGNS, TRADE MARKS AND COPYRIGHT
PRIVATE BAG/PRIVAATSAK X400
1998-12-18
PRETORIA 0001

hereby declare that :-

1. I/we am/are the applicant(s) mentioned above;

\*\* 2. I/we have been authorized by the applicant(s) to make this declaration and have the power to execute the facts herein stated in the capacity of Director & Companies Secretary of the applicant(s);

\*\*\* 3. the inventor(s) of the abovementioned invention is/are the person(s) named above and the applicant(s) has/have acquired the right to apply by virtue of an assignment from the inventor(s);

4. to the best of my/our knowledge and belief, if a patent is granted on the application, there will be no lawful ground for the revocation of the patent;

\*\*\*\* 5. ~~this is a convention application and the earliest application from which priority is claimed as set out above is the first application in a convention country in respect of the invention claimed in any of the claims; and~~

6. the partners and qualified staff of the firm of ADAMS & ADAMS, patent attorneys, are authorised, jointly and severally, with powers of substitution and revocation, to represent the applicant(s) in this application and to be the address for service of the applicant(s) while the application is pending and after a patent has been granted on the application.  
With effect from 12 October 1998.

SIGNED THIS 2ND DAY OF NOVEMBER

19 98

Director

*Michael John Nayler*

ANGLO AMERICAN CORPORATION  
OF SOUTH AFRICA LIMITED  
Secretary

*Stuart Colin McNair*

Company Name: ANGLO AMERICAN INDUSTRIAL CORP LTD.  
Full Names: MICHAEL JOHN NAYLER  
Capacity:

STUART COLIN MCNAIR

(no legalization necessary)

\* In the case of application in the name of a company, partnership or firm, give full names of signatory/signatories, delete paragraph 1, and enter capacity of each signatory in paragraph 2.

\*\* If the applicant is a natural person, delete paragraph 2.

\*\*\* If the right to apply is not by virtue of an assignment from the inventor(s), delete "an assignment from the inventor(s)" and give details of acquisition of right.

\*\*\*\* For non-convention applications, delete paragraph 5.

ADAMS & ADAMS  
PATENT ATTORNEYS  
PRETORIA

FORM P6

REPUBLIC OF SOUTH AFRICA  
Patents Act, 1978

# PROVISIONAL SPECIFICATION

(Section 30 (1) - Regulation 27)

OFFICIAL APPLICATION NO.

21 01

J89281

LODGING DATE

22 12 October 1998

FULL NAMES(S) OF APPLICANT(S)

71

~~ANGLO AMERICAN INDUSTRIAL CORPORATION LIMITED~~

TELCO PRODUCTS CORPORATION

AANSOEKERS VERVANG  
APPLICANTS SUBSTITUTED  
19/5/99

FULL NAME(S) OF INVENTOR(S)

72

JOHANNES HENDRIK FEHRSEN

TITLE OF INVENTION

54

"A WINDSCREEN WIPER"

This invention relates to a windscreen wiper. More particularly, the invention relates to a windscreen wiper and to a protective end fitting for a windscreen wiper.

5 According to a first aspect of the invention, there is provided a windscreen wiper which includes a unitary elongate curved beam, the beam having a protective end formation at at least one of its tips.

10 The protective end formation may be in the form of a rounded end which is formed by folding an edge portion of the tip over. The edge portion may be folded over so that it extends substantially perpendicularly to an upper surface of the tip or it may be folded back on itself.

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15 The edge portion of the tip may comprise an extra length of the beam. The edge portion may be pre-shaped, having rounded edges. The edge portion may be folded after being softened in a heating process to facilitate bending.

The protective end formation may alternatively be in the form of a separate fitting of a moulded plastics material which fits over the edge portion of

the tip.

According to a second aspect of the invention, there is provided a protective end fitting for a windscreen wiper, which includes a body member  
5 having a recess for snugly receiving a tip of a beam.

The fitting may have a locating means, with the beam having complementary locating formations for securing the fitting in position on the beam.

10 The invention is now described, by way of example, with reference to the accompanying drawings, in which:

Figure 1 shows a side view of a windscreen wiper, in accordance with a first aspect of the invention;

Figure 2 shows a side view of a protective end fitting for a windscreen  
15 wiper, in accordance with a second aspect of the invention;

Figure 3 shows an end view of the fitting of Figure 2, viewed from a section taken along III-III in Figure 2;

Figure 4 shows a top view of the fitting of Figure 2;

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Figure 5 shows a side view of one embodiment of a protective end formation  
20 for a windscreen wiper, in accordance with the first aspect of the invention; and

Figure 6 shows a side view of another embodiment of a protective end formation for a windscreen wiper, in accordance with the first aspect of the invention.

In the drawings, a windscreen wiper in accordance with the invention is generally designated by the reference numeral 10. The windscreen wiper 10 includes a unitary curved backbone in the form of a beam 12 and a rubber wiper blade 14. The beam 12 has a protective end formation generally indicated by reference numeral 16, at each of its tips 18.

Referring to Figures 2 to 4 of the drawings, a protective end fitting for a windscreen wiper, in accordance with a second aspect of the invention, is generally indicated by reference numeral 20. The protective end fitting 20 includes a body member 22 having a recess 24 for snugly receiving one of the tips 18 of the beam 12. Each fitting 20 is moulded and comprises a synthetic plastics material.

Referring now to Figures 5 and 6 of the drawings, two different embodiments of the protective end formation 16 are shown. In Figure 5, the end formation 16 is in the form of a rounded end which was formed by folding an edge portion 26 of the tip 18 over, so that it extends substantially perpendicularly to an upper surface 28 of the tip 18. The end formation 16, shown in Figure 6, is also in the form of a rounded end formed by folding the edge portion 26 of the tip 18 over on itself.

Each edge portion 26 of the tip 18 comprises an extra length of the beam 12. The edge portion 26 may be bent by clamping the tip 18 of the beam 12 in a clamping mechanism to avoid bending or damaging of the beam 12 during

bending of the edge portion 26. The edge portion 26 may be softened in a heating process before or after clamping of the tip 18 to facilitate bending.

It will be appreciated that the actual shape of the rounded end is cost and aesthetically determined.

**DATED THIS 12TH DAY OF OCTOBER 1998**



**A. LEWIS  
ADAMS & ADAMS  
APPLICANT'S PATENT ATTORNEYS**



Figure 1

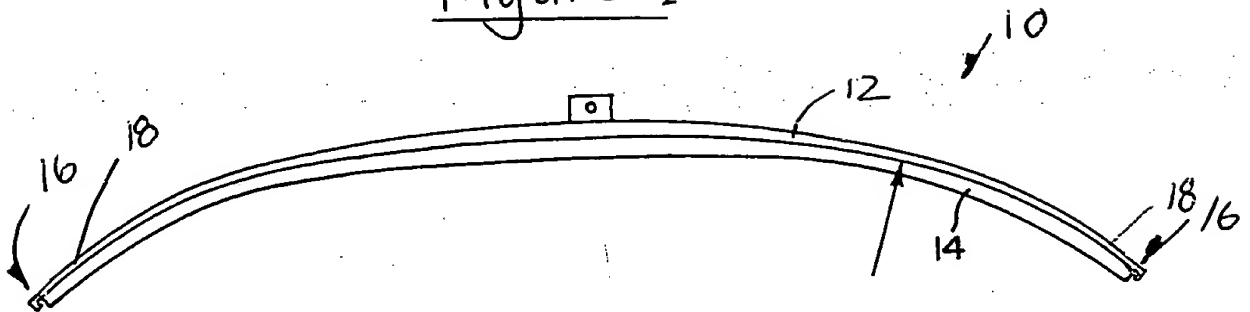


Fig 3

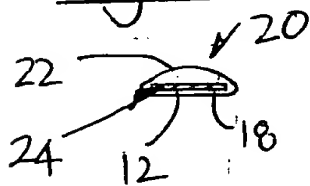


Fig 2

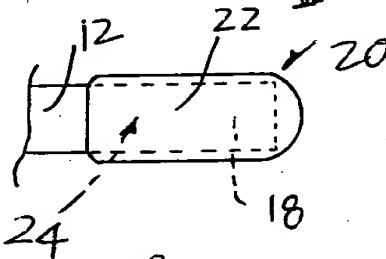
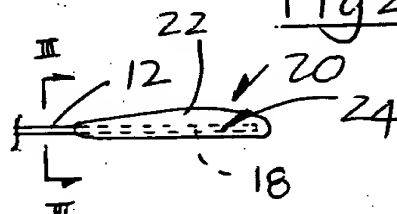


Figure 4

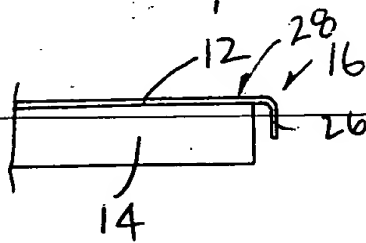


Figure 5

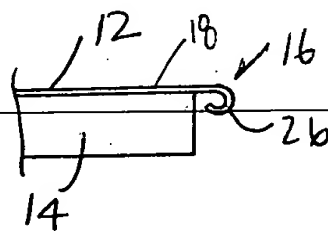


Figure 6

